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sc and (quartz near crystal) and (tilt* near angle)

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	Title	Pub. Date	Int. Class	App. Nu
1.	(WO 2009/038218) BIAXIAL BIREFRINGENT COMPONENT, LIQUID CRYSTAL PROJECTOR, AND METHOD FOR MANUFACTURING BIAXIAL BIREFRINGENT COMPONENT	26.03.2009	G02B 5/30	PCT/ JP2008/
	A phase compensator having a biaxial birefringent component (40) is fabricated by oblique deposition of an inorganic material on a substrate. An angle of an evaporation path of the inorganic material is controlled in a predetermined angular range to a surface normal of the base plate. In the deposition process, the base plate (69) is oscillated in a horizontal direction. The phase compensator is arranged such that its slow axis (L3) is tilted in an opposite direction to the tilt components (24a, 24b) in a liquid crystal panel (20), and that an index ellipsoid (41) is tilted in an opposite direction to the tilt components (24a, 24b).			
2.	(WO 2009/034109) ILLUMINATION SYSTEM OF A MICROLITHOGRAPHIC PROJECTION EXPOSURE APPARATUS	19.03.2009	G03F 7/20	PCT/ EP2008/
	The invention concerns an illumination system of a microlithographic projection exposure apparatus comprising a mirror arrangement (21, 43, 45, 52, 63, 84, 93, 140, 250, 340, 540, 940) which has a plurality of mirror units (141, 142, 143, 341, 342, 343, 541, 542, 543), wherein said mirror units are arranged independently of each other for altering an angle distribution of the light reflected by the mirror arrangement (21, 43, 45, 52, 63, 84, 940), and at least one element (20, 42a, 44, 51, 62, 64, 71, 81, 91, 130, 200, 260, 330, 530, 930) arranged in front of the mirror arrangement (21, 43, 45, 52, 63, 84, 93, 140, 250, 340, 540, 940) in the light propagation direction for producing at least two different states ...			

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5. (WO 2009/024971) FINGER-WORN DEVICES AND RELATED METHODS OF USE

26.02.2009 A61H 1/02 PCT/
IL2008/0

Finger-worn user input devices and methods for operating same. In some embodiments, a device includes at least one rotatable section (116, 116a, 130, 516, 526, 616, 816, 826, 836, 1316, 1416, 1616, 2116, 2222, 2320, 2720, 3524) for indicating a device state. In some embodiments, a device includes a stationary section (114), at least one rotatable section (112, 912) and another rotatable section (112, 912). In some embodiments, one or more rotatable sections are tiltable. In some embodiments, a device further includes one or more mechanisms used for sensing (118, 128, 128a, 134, 136, 1216), communication (140), power generation (616, 3342), light generation (140), and detection (140).

6. (WO 2008/128372) TRANSMISSION INTERFEROMETRIC ADSORPTION SENSOR

30.10.2008 G01N 21/31 PCT/
CH2008/0

A method and devices are presented for the measurement of adsorption based on thin-film interference at interfaces of a number of transparent layers, wherein the transparent layers have a total thickness of 2-100 μ m, wherein the secondary interference fringes result from the reflection of light at the optical interfaces, wherever the refractive index exhibits a discontinuity, wherein 5-100 secondary fringes are measured and detected and used for the evaluation of the adsorption.

7. (WO 2008/123935) ULTRATHIN MAGNESIUM NANOBLADES

16.10.2008 B82B 1/00 PCT/
US2008/0

A nanostructure includes a plurality of metal nanoblades positioned with one edge on a substrate. Each of the plurality of metal nanoblades has a surface area to mass ratio and a width smaller than a length. A method of storing hydrogen includes coating a plurality of magnesium nanoblades with a storage catalyst and storing hydrogen by chemically forming magnesium hydride with the plurality of magnesium nanoblades.

8. (WO 2008/086616) SCANNING MECHANISMS FOR IMAGING PROBE

24.07.2008 A61B 1/045 PCT/
CA2008/0

The present invention provides scanning mechanisms for imaging probes using for imaging mammalian tissues and structures using high frequency ultrasound and/or optical coherence tomography. The imaging probes include adjustable rotational drive means for providing rotational motion to an imaging assembly containing either optical or ultrasound transducers which emit energy into the surrounding tissue. The imaging assembly includes a scanning mechanism having including a movable member configured to deliver the energy beam along a path that is snail at a variable angle with respect to said longitudinal axis to give forward and side viewing capability of the imaging assembly.

9. (WO 2008/086613) IMAGING PROBE WITH COMBINED ULTRASOUND AND OPTICAL MEANS OF IMAGING

24.07.2008 G01D 5/347 PCT/
CA2008/0

The present invention provides an imaging probe for imaging mammalian tissues and structures using high resolution imaging, including high frequency ultrasound and optical coherence tomography. The imaging probes structures using high resolution imaging use combined high frequency ultrasound and optical imaging methods such as optical coherence tomography (OCT) and to accurately co-registering of images obtained from the ultrasound and optical image signals during scanning a region of interest.

10. (WO 2008/068752) FORMATION OF ORGANIC NANOSTRUCTURE ARRAY

12.06.2008 C07K 5/06 PCT/
IL2007/0

A nanostructure array is disclosed. The nanostructure array comprises a plurality of elongated organic nanostructures arranged generally in a plane.

11. (WO 2008/044612) EXPOSURE APPARATUS, EXPOSURE METHOD, AND DEVICE

17.04.2008 G03F 7/20 PCT/

An exposure apparatus includes a first optical member from which an exposure beam is emitted; a first object movable at a light-exit side of the first optical member; a second object movable, independently of the first object, at the light-exit side of the first optical member; and a driving unit for driving the first object and the second object in a first direction within a predetermined plane including a first position opposing the first optical member. The first object and the second object are close to or in contact with each other and in which positions of the first object and the second object within the predetermined plane are shifted.

12. (WO 2007/121406) POLARIZATION BASED INTERFEROMETRIC DETECTOR

25.10.2007 G01J 4/00

PCT/

US2007/

A sensor and method for determining the optical properties of a sample material is disclosed. The sensor comprises a light source for emitting a polarized light beam having a predetermined polarization orientation with respect to the plane of incidence. The linearly polarized light beam is incident on a sample and is split into second and third light beams where the second and third light beam consist of the combined projections of the components of the first light beam. A signal processor measures the intensity difference between the second and third light beams to determine a difference induced by the sample material.

13. (WO 2007/073107) BIO MEMORY DISC AND BIO MEMORY DISK DRIVE APPARATUS, AND ASSAY METHOD USING THE SAME

28.06.2007 G01N

33/483

PCT/

KR2006/

The present invention provides a bio memory disc where a lab-on-a-chip process system including an assay-diagnosis unit, a nucleic acid amplification unit, or an immuno-assay unit and a semiconductor memory is disposed, a bio memory disc drive apparatus including a controller for controlling the bio memory disc drive apparatus, and an optical disc including CD or DVD and the bio memory disc and an assay method using the same.

14. (WO 2007/048507) BEAM SEPARATING OPTICAL ELEMENT

03.05.2007 G02B 27/09

PCT/

EP2006/

The invention relates to a beam separating optical element (26) for limiting an illuminating field of an incident optical beam (24) coming from a first surface (28) and a second surface (30), said first surface and said second surface enclosing an **angle** and forming an edge (32), said edge separating the incident optical beam into at least two sub-beam (34, 36), and having a deviation from a predetermined shape of not more than 20 µm/m length.

15. (WO 2006/135261) NANOSCALE PATTERNING AND FABRICATION METHODS

21.12.2006 H05K 3/10

PCT/

NZ2006/

The invention disclosed relates to the formation of patterns on the surface of a substrate prepared by the deposition of clusters through a mask. The preferred form the pattern is nanoscale and comprises an electrical connection between contacts on the substrate.

16. (WO 2006/123188) THERMAL CONTROL FILM FOR SPACECRAFT

23.11.2006 B64G 1/22

PCT/

GB2006/

A thermal control film for use in spacecraft comprising a multi-layer interference filter adapted to exhibit high reflectivity to solar radiation across the microwave spectrum and high emissivity in the far infrared is provided. The film is free from metal and extends over the entire surface of the spacecraft. Such a film exhibits the desired thermo-optical properties for a thermal control radiator surface and can be used for communications or radar antenna without disrupting the RF signal.

17. (WO 2006/108642) ORGANIC THIN FILM INSULATOR

19.10.2006 B05D 1/18

PCT/

EP2006/

The present invention relates to a layer system with an organic thin film having insulation properties, and a microelectronic device comprising the layer system as a transistor or a magnetic tunnel junction. The layer system comprises a substrate (which can also be a thin film deposited on a substrate) and a monolayer of functionalized molecules chemisorbed on the substrate which is cross-linked in the lateral direction, and a electrically conductive or ferromagnetic layer on the top of the monolayer.

18. (WO 2006/085974) AMPHIPHILIC DENDRITIC DIPEPTIDES & THEIR SELF-ASSEMBLY INTO HELICAL PORES 17.08.2006 A61K 38/05 PCT/US2005/

An amphiphilic dendritic dipeptide, comprises a dipeptide(s) comprising one or more of a naturally occurring or synthetic amino acid suitable for use in various formulations, films, coatings, membranes and sensors, among other applications.

19. (WO 2006/064956) PHASE DIFFERENCE COMPENSATOR, LIGHT MODURATING SYSTEM, LIQUID CRYSTAL DISPLAY AND LIQUID CRYSTAL PROJECTOR 22.06.2006 G02B 5/30 PCT/JP2005/

ABSTRACT On a transparent glass substrate (10), a first retardation compensation layer (12) and a second retardation compensation layer (14) formed of inorganic material, are provided. The first retardation compensation layer (12) includes a lamination of two kinds of deposition films thinner than reference wavelength, one has high refraction index, and the other has low refraction index, to be a negative C-plate. The second retardation compensation layer (14) includes at least two oblique deposition films, to be a positive O-plate. The first retardation compensation layer (12) has a phase difference from liquid crystal molecules in a vertical orientation in a liquid crystal layer, and the second retardation layer (14) has a phase difference from liquid crystal molecules in a vertical orientation in a liquid crystal layer.

20. (WO 2005/122293) FORMATION OF ORDERED THIN FILMS OF ORGANICS ON METAL OXIDE SURFACES 22.12.2005 H01L 51/00 PCT/US2005/

Provided herein is a method for altering an electronic property of a structure comprising an oxide surface or an oxide surface in electronic contact with the structure, the method comprising providing a covalently-bound film comprising at least one organic acid residue on a portion of the oxide surface, and at least one of the following properties of the structure is modified: (a) the charge carrier injection barrier properties; (b) the charge carrier transport properties; (c) the work function properties; (d) the sub-threshold slope; and (e) the threshold voltage.

21. (WO 2005/056176) ZEOLITES WITH INCORPORATED DIPOLAR NONLINEAR OPTICAL MOLECULES IN UNIFORM ORIENTATION AND PREPARATION THEREOF 23.06.2005 B01J 20/18 PCT/KR2004/

The present invention relates to a method for preparing a uniformly aligned zeolite supercrystal, which comprises growing a zeolite crystal material in a uniformly aligned template, whereby said uniformly aligned zeolite supercrystal is prepared, and a uniformly aligned zeolite supercrystal of this invention would be anticipated to maximize its applicability by overcoming the shortcomings of the prior art random orientation.

22. (WO 2005/043233) MICROSTRUCTURES INTEGRATED INTO A TRANSPARENT SUBSTRATE WHICH SCATTER INCIDENT LIGHT TO DISPLAY AN IMAGE 12.05.2005 G03B 21/26 PCT/US2004/

Viewable images may be created in or on glass, or any other at least partially transparent substrate (14), using microstructures (22) integrated into the substrate (14), while the glass maintains transparent or translucent properties. The microstructures may be integrated into the glass substrate (14) by a variety of methods.

23. (WO 2004/087564) PRECISELY POSITIONED NANOWHISKERS AND NANOWHISKER ARRAYS AND METHOD FOR PREPARING THEM 14.10.2004 C30B 11/00 PCT/GB2004/

A nanoengineered structure comprising an array of more than about 1000 nanowhiskers on a substrate in a predetermined spatial arrangement, for example as a photonic band gap array, wherein each nanowhisker is sited within a distance from a predetermined site not greater than a predetermined distance from its nearest neighbour. To produce the array, an array of masses of a catalytic material are positioned on the surface, and materials in gaseous form are introduced such as to create a catalytic seed particle from each mass, and to grow, from the catalytic seed particle, a nanowhisker of a predetermined material, and wherein each mass upon melting, retains approximately the same interface with the substrate.

24. (WO 2004/079434) VAPOR DEPOSITED ELECTRO-OPTIC FILMS SELF-ASSEMBLED THROUGH HYDROGEN BONDING 16.09.2004 C07D 403/10 PCT/US2004/

The present invention introduces a novel route toward microstructural orientation into organic films, using multiple hydrogen-bonding interactions between organic molecules.

chromophore molecules into electro-optic films in a net polar orientation. High-quality, thick films (up to micrometers) with molecular
be fabricated under vacuum in hours. The film microstructure is intrinsically acentric, and the orientation is robust.

25. (WO 2004/057413) DEVICE AND METHOD FOR AN OPTICAL TUNABLE POLARIZATION 08.07.2004 G02B 27/28 PCT/
INTERFERENCE FILTER FI2003/0

The invention provides a tuner as constituent component for constructing a tunable or switchable spectral filter, including single and
filters without intermediate polarizer, over a wavelength range, which is characterized in that it comprises elements arranged in cascade
axis including a dispersive polarization rotator, having its rotation **angle** $p(\lambda)$ varying as a function of light wavelength λ over said wavelength
orientation-sensitive polarizing element, and means for rotating said polarizing element or/and varying said rotation **angle** $p(\lambda)$; where
rotator and said polarizing element are arranged in series in said spectral filter along said light beam axis with ...

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